



Specialist Optical Systems



Chromar Technology is a privately owned South-African company which develops specialised optical systems with applications in military, airborne, space, naval, medical, industrial, security, mining and forestry. As of May 2019, Chromar has more than 200 original optical designs of which many concepts are unique.

Long range surveillance catalogue

Design | Assemble | Test | Train

Chromar Technology | info@chromar.co.za | Tel: +27 83 267 6958 | www.chromar.co.za
54 Woodlands Ave, Irene Woods Estate, Centurion, RSA

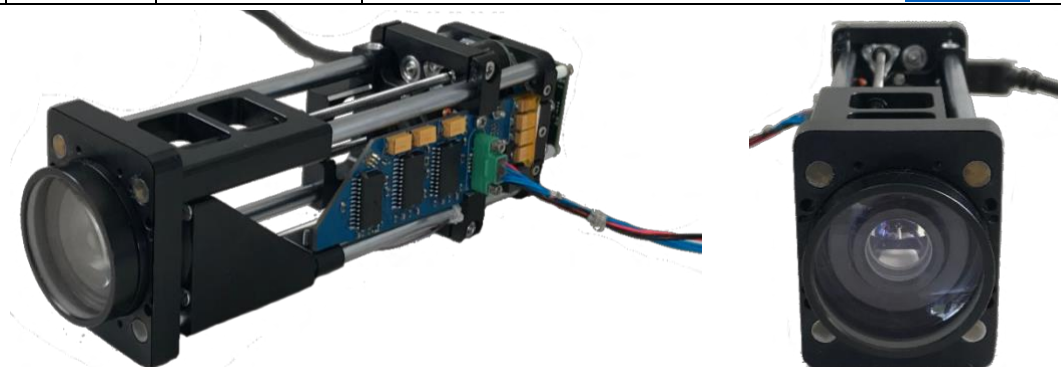
List of Chromar Lenses, (January 2022)

REFRACTING LENSES



EFL	f/#	ImgHt(semi)	Spectral Ranges	Notes
13	6	3.4	VIS NIR	WF lens for gunner&commander sight
16	1.4	3.4	VIS NIR	Built for Space Applications. Several in orbit
17	5	3.4	VIS NIR	Designed only
20	1.5	3.4	UV VIS	Designed only
21	1.56	3.4	VIS NIR	Built, Star camera. Several in orbit
25	1.4	3.2	VIS NIR	Built for space applications. Several in orbit
25	5	3.6	NIR SWIR	Designed only
29	1.1	2	B&W	Built for space applications. Several in orbit
30	6	4.4	VIS NIR	Built about 1000, gunner&commander sight
35	5	4.8	VIS NIR	Designed only
50	5	4.8	SWIR	Designed only
50	5	9.6	VIS	Stabilised sight with high resolution digital zoom
55	5	3.4	VIS	Designed
65	5	4.4	VIS NIR	Built
70	5	4	NIR	Built (Design exists for VIS NIR)
70	5	15	VIS NIR	Space, multi-purpose wide angle
90	5	4.8	VIS NIR	Built – stabilised sight
100	1.4	4	LWIR	Designed only
100	3	8	NIR SWIR	Designed only
138	6	5	VIS NIR	Built about 1000, gunner&commander sight
140	3	5	VIS NIR	Designed only
200	6	5.4	NIR	Designed only
300	2.8	18	VIS	Built, for Cinematography
327	5	60	VIS NIR	Design only, 120 mm ImgDia, excellent MTF
400	5	26	VIS NIR	Built for South African Sumbandila satellite, – Read more

ZOOM



EFL	Ratio	f/#	ImgHt(semi)	Narrow FoV	Spectral Ranges	Notes
9-320	25x	3.8 - 6.8	2.4 mm	1° at 1080P format	VIS	Built, compact 173x58x46 mm Rugged, boresight excellent
18-430	24x	3 – 5.6	6.4 mm	1.7° at 1280 pixels	SWIR	Designed, based on the visual zoom concept

List of Chromar Lenses, (January 2022)



CATADIOPTRIC



EFL	f/#	ImgHt(semi)	Spectral Ranges	Notes
50	1.3	5	VIS NIR SWIR	Designed only
100	1.5	5	VIS NIR SWIR MWIR	Designed only
100	1.5	5	VIS NIR SWIR	Designed only
100	2	5	VIS NIR SWIR	Designed only
100	3	6	VIS NIR SWIR	Designed only
100	4	4.8	VIS NIR SWIR	Designed only
100	5	4	UV VIS NIR SWIR	Designed only
150	4	7	VIS NIR SWIR	Designed only
170	4.3	8	VIS NIR SWIR	Built for space applications
183	3.2	5	MWIR LWIR	Designed only
200	1.2	5	VIS NIR SWIR	Designed for space applications
200	5	5	VIS NIR SWIR	Designed only
200	6	5	VIS NIR SWIR	Designed only
200	8	2	VIS NIR	Prototype built
250	4	5	VIS NIR SWIR	Built two demo models
250	4	5	VIS NIR SWIR MWIR	Designed only
250	5	5	VIS NIR SWIR	Built several hundred
250	7	5	VIS NIR SWIR	Designed only
270	7	3	VIS NIR	Built for long range surveillance
285	3.4	14	VIS NIR SWIR	Built for space applications, very compact
300	4	5	VIS NIR SWIR	Designed only
300	7	5	VIS NIR SWIR	Designed only
310	6	4	VIS NIR	Built for long range surveillance
320	4	10	VIS NIR SWIR MWIR	Designed only
345	4.2	14	VIS NIR SWIR	Designed only
350	4	6.4	VIS NIR SWIR	Built for long range surveillance
350	6.4	4	VIS NIR SWIR	Built for long range surveillance
430	2.0	6.4	VIS NIR	Designed only
450	2.0	5	VIS NIR	Designed only
500	4	11	VIS NIR SWIR MWIR	Designed only
550	6	6	VIS NIR SWIR	Built for long range surveillance
550	4	11	VIS NIR SWIR	Designed for space application
600	6	18	VIS NIR SWIR	Designed for space application
600	6.2	8	VIS NIR SWIR	Designed for space application, extremely compact
640	4.4	11	VIS NIR SWIR	Designed for space application
800	5	17	VIS NIR SWIR	Designed for space application
800	7	17	VIS NIR SWIR	Designed for space application
845	9	14	VIS NIR SWIR	Built for Cube-sat U3
860	6	16	VIS NIR SWIR	Designed for space application